SAMSUNG

RADIO CASSETTE RECORDER CD PLAYER

RCD-380

SERVICE Manual

RADIO CASSETTE RECORDER CD PLAYER

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1. Alignment and Adjustments

1-1 Instrument

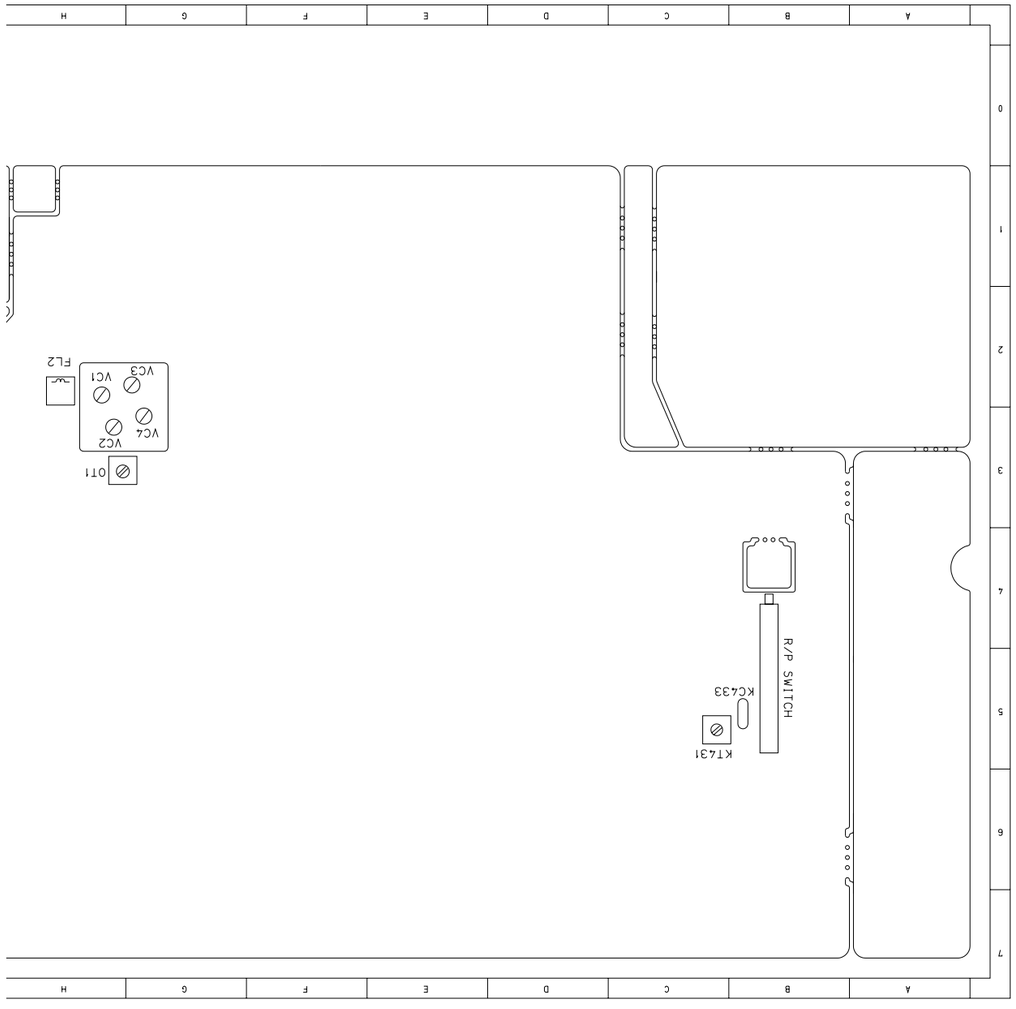


Fig 1-1 Location of Adjustment Point

1-1-1 Test Equipment

1. AM/FM Standard Signal Generator (S.S.G)
   - AM : 400Hz, 30% MOD - FM : 1KHz , 40KHz(Deviation)
2. Oscilloscope
3. VTVM
4. Frequency counter
5. Loop antenna
6. Dummy load (3Ω)
7. DC voltmeter
8. SW Dummy ANT
9. FM Stereo Modulator
10. FM/AM IF Generator : 10.7MHz,455kHz

1-1-2 Pre-Adjustment

1. Check the source voltage
2. Select desired Band and Function.
3. Set the SBS control to off position.
4. Set volume control to approximaterly 50mW(3ohm)

1-2 Tuner Section

1-2-1 FM Adjustment

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	Fig 1-2	10.7 MHz	Tune to the lowest	Not required	checked
2	FM frequency coverage adjustment	Fig 1-3	87.3 MHz	Tune to the lowest	FL2 FM OSC COIL	Best resonating point of SSG
3			108.3 MHz	Tune to the highest	VC1 OSC TRIMMER	Best resonating point of SSG
4	FM tracking adjustment	Fig 1-3	90 MHz	90 MHz	Not required	
5			106 MHz	106 MHz	VC2 ANT TRIMMER	Maximum output
6	Stereo separation adjustment	Fig 1-3 Connect Stereo generatorto S.S.G additionally	98 MHz	98MHz	Not required	

FM IF OUTPUT : PIN NO. 19 of FIC1(KA22901) - Freference next page(Fig 1-2)

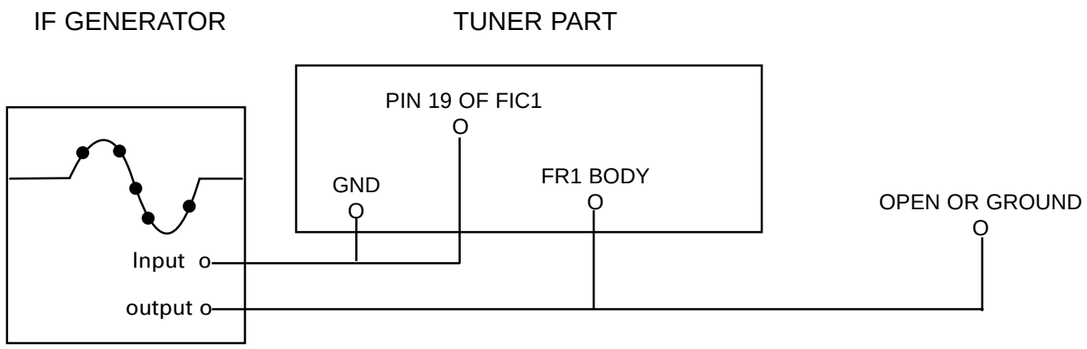


Fig 1-2

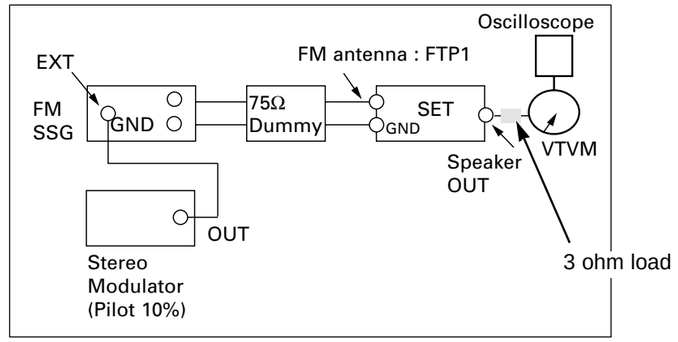


Fig 1-3

1-2-2 AM Adjustment(2BAND)

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	Fig1-4	455 KHz (465) KHz	Tune to the lowest	AM IFT : IT 1(WHT)	Maximum output
2	AM frequency coverage adjustment	Fig 1-5	515 KHz	Tune to the lowest	AM OSC COIL : OT 1	Best responding point of SSG
3			1650 KHz (1750)KHz	Tune to the highest	OSC TRIMMER : VC4	Best responding point of SSG
4	AM tracking adjustment	Fig 1-5	600 KHz	600 KHz	AM ANT COIL	Maximum output
5			1400 KHz	1400 KHz	ANT TRIMMER : VC3	Maximum output

AM IF OUTPUT : PIN NO. 19 of FIC1(KA22901)

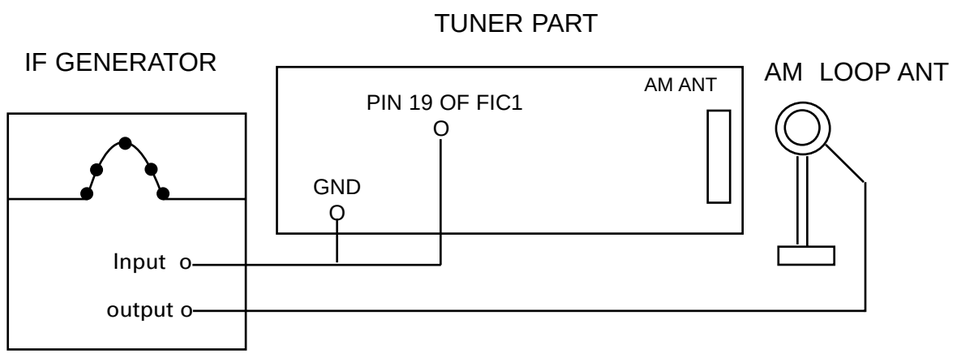


Fig 1-4

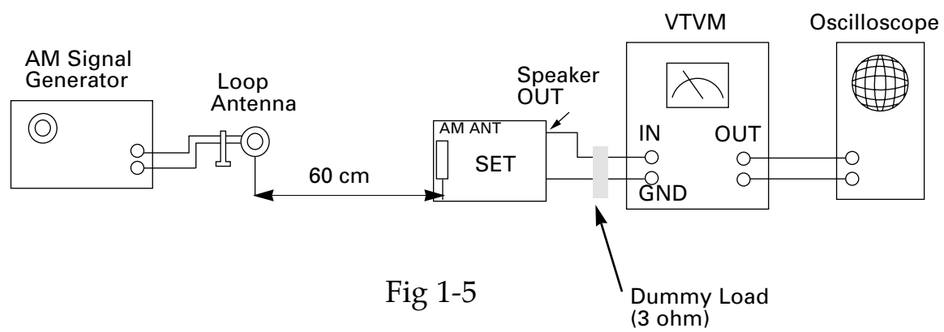


Fig 1-5

1-3 3BAND Adjustment

1-3-1 AM/SW

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	IF is the same as 2 band's				
2	AM frequency coverage adjustment	Fig 1-5	515 KHz	Tune to the lowest	OT2	Best responding point of SSG
3			1650 KHz	Tune to the highest	VC4	Best responding point of SSG
4	AM tracking adjustment	Fig 1-5	600 KHz	600 KHz	AM ANT COIL	Maximum output
5			1400 KHz	1400 KHz	VC3	Maximum output
6	SW frequency coverage adjustment	Fig 1-6,1-7	5.7 KHz	Tune to the lowest	OT1	Best responding point of SSG
7			18.5 KHz	Tune to the highest	OCT4	Best responding point of SSG
8	SW tracking adjustment	Fig 1-6,1-7	7 MHz	7 MHz	OL1	Maximum output
9			15 MHz	15 MHz	Not required	

1-3-2 MW(AM)/LW

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	IF is the same as 2 band's				
2	AM frequency coverage adjustment	Fig 1-5	515 KHz	Tune to the lowest	OT1	Best responding point of SSG
3			1650 KHz	Tune to the highest	VC4	Best responding point of SSG
4	AM tracking adjustment	Fig 1-5	600 KHz	600 KHz	AM ANT COIL	Maximum output
5			1400 KHz	1400 KHz	VC3	Maximum output
6	LW frequency coverage adjustment	Fig 1-5	145 KHz	Tune to the lowest	OT2	Best responding point of SSG
7			295KHz	Tune to the highest	OCT4	Best responding point of SSG
8	LW tracking adjustment	Fig 1-5	170MHz	170 MHz	LW ANT COIL	Maximum output
9			270 MHz	270 MHz	Not required	

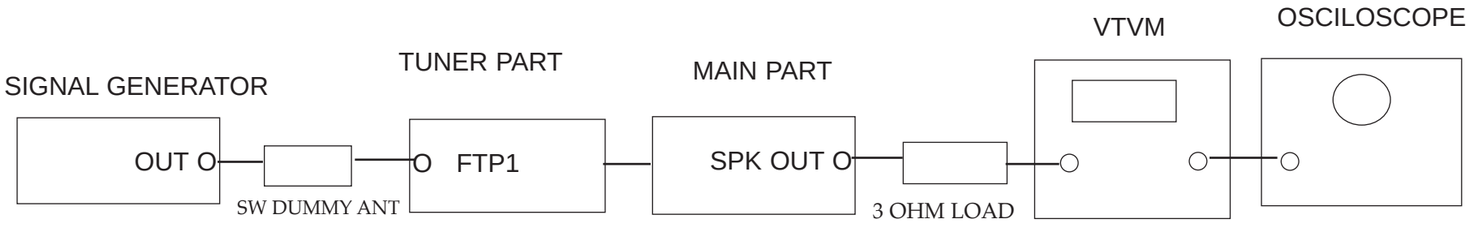


Fig1-6

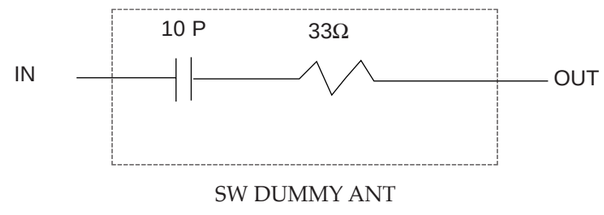


Fig1-7

1-4. Tape section

1-4-1. Recording BIAS adjustment

1) Connect frequency counter to KC433 (See Fig.1-8)and press the Record button.
2) Adjust KT431 (BIAS OSC COIL) until frequency counter reads 50KHz on stereo FM mode .

1-4-2. Tape AZIMUTH adjustment

1) Connect the equipments as per Fig.1-10 to adjust the tape azimuth with test tape (recorded at 6.3KHz : MTT-113N)
2) Play the test tape after inserting in DECK.
3) Adjust the azimuth ajustment screw of left side of record/play head for maximum output and for the same channel phase. (see Fig.1-9)

1-4-3. Tape speed adjustment

1) Connect the equipments as shown in Fig.1-10 adjust the tape speed with test tape (recorded at 3KHz : MTT-111N)

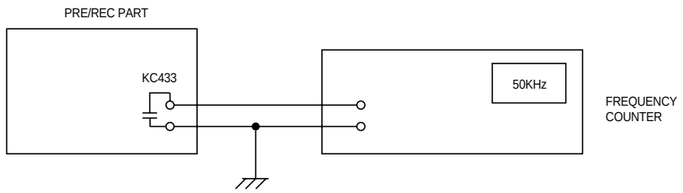


Fig.1-8 Recording bias adjustment

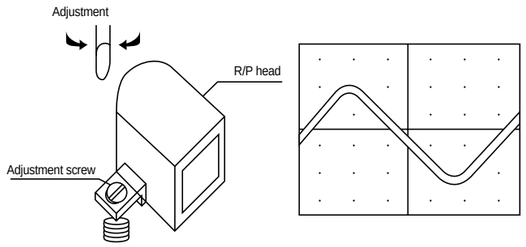


Fig.1-9 Azimuth speed adjustment

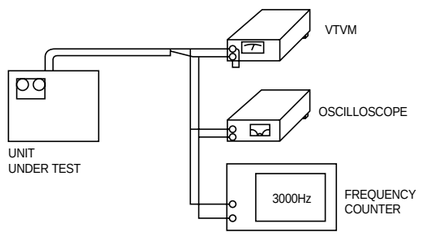
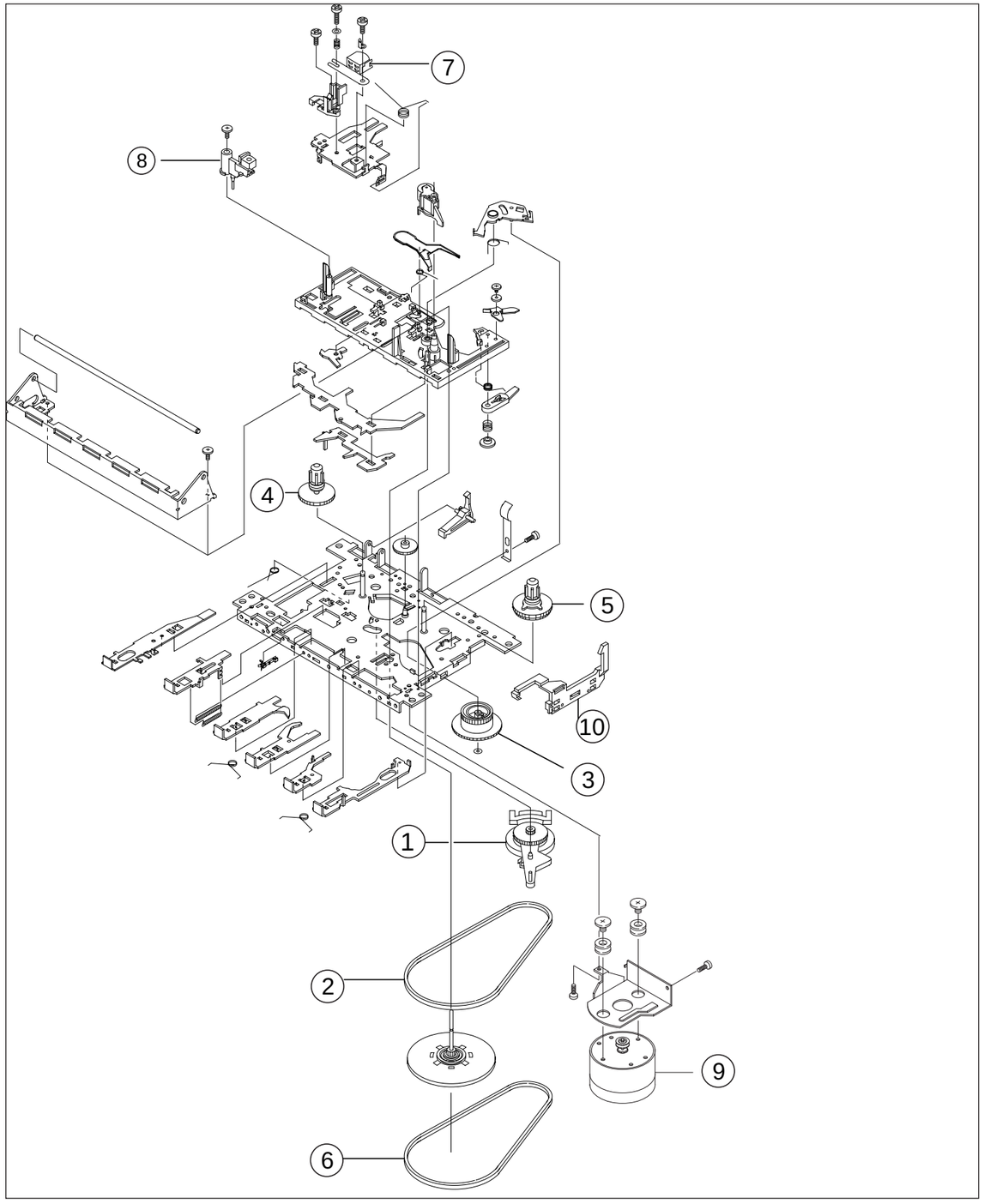


Fig.1-10

2.Exploded Views and Parts List

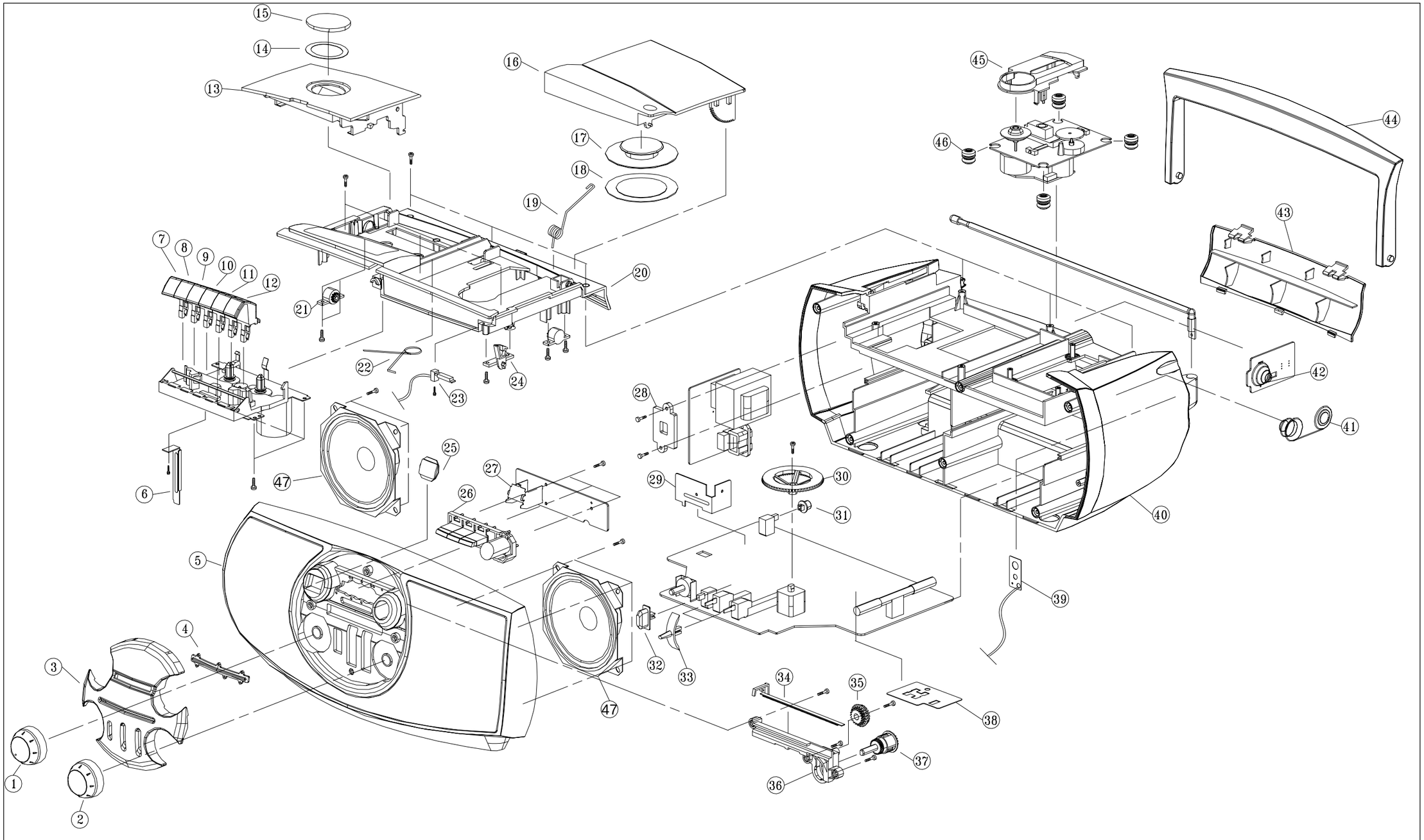
2-1 Cassette Deck Exploded View and Parts List



No.	Code No.	Description	Specification	Remarks
	AH59-20005Y	DECK ASS'Y	YN21ZSC-53	
1	AH81-11037D	R.F PULLEY ASS'Y	8521-200090-300	
2	AH81-11154D	BELT SUB	6600-090014-001	
3	AH81-11037H	CAM GEAR	6021-200802-001	
4	AH81-11037J	S REEL ASS'Y	8521-200080-300	
5	AH81-11037K	T REEL ASS'Y	8521-200070-300	
6	AH81-11154E	BELT MAIN	6600-090020-001	
7	AH81-11150W	R/P HEAD	TC-591	
8	AH81-11150X	ERASE HEAD	TC-230AN	
9	AH81-11154F	MOTOR	EG530AD9B	
10	AH81-10695L	EJECT SLIDE LEVER	YAN10N	

2-2 Main Exploded View and Parts List

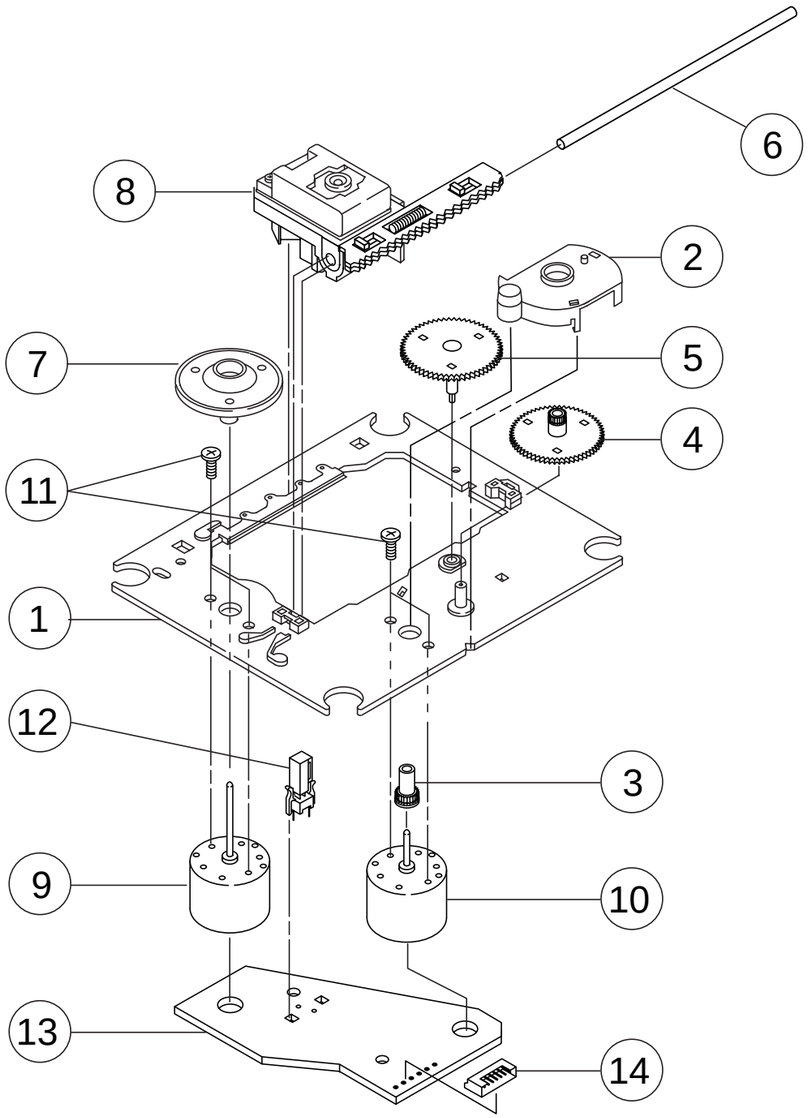
2-2-1 Exploded View



2-2-2 Parts List

No.	Code No.	Description	Specification	Remarks
1	AH64-11294A	KNOB-ROTARY	-,ABS,-,BLK,-,RCD380	
2	AH64-11304A	KNOB-TUNING	-,ABS,-,BLK,-,RCD380	
3	AH64-42014A	DECORATION-FRONT	-,HIPS,-,T2.5,-,RCD380	
4	AH64-42016A	WINDOW-SCALE	-,PMMA,-,-,CLEAR,-,RCD380	
5	AH64-32007A	CABINET-FRONT	-,HIPS,-,T3,-,BLK,-,RCD380	
6	AH61-10761B	BRACKET-REC	-,STS+SECC,-,T0.5,-,-,RCD380	
7	AH64-11298A	KNOB-DECK,REC	-,ABS,-,BLK,-,RCD380	
8	AH64-11299A	KNOB-DECK,PLAY	-,ABS,-,BLK,-,RCD380	
9	AH64-11300A	KNOB-DECK,FF	-,ABS,-,BLK,-,RCD380	
10	AH64-11301A	KNOB-DECK,REW	-,ABS,-,BLK,-,RCD380	
11	AH64-11302A	KNOB-DECK,STOP	-,ABS,-,BLK,-,RCD380	
12	AH64-11303A	KNOB-DECK,PAUSE	-,ABS,-,BLK,-,RCD380	
13	AH64-52006A	DOOR-CASSETTE	-,ABS,-,T2.5,-,BLK,-,RCD380	
14	AH68-50496A	LABEL-STICKER	RCD380,DOUBLETAPE	
15	AH64-42015A	WINDOW-DOOR	-,PMMA,-,-,CLEAR,-,RCD380	
16	AH64-52005A	DOOR-CD	-,ABS,-,T2.5,-,BLK,-,RCD380	
17	16603-511-840	CHUCK-PLATE	ABS+GF BLK NEW RCD-1360	
18	AH63-70025B	SHEET-CHUCK	HYMERON,T0.3,L50,W68,BLK	
19	AH61-62007B	SPRING-CD DOOR	-,-,SUS304,PI1.3,RCD380	
20	AH64-32009A	CABINET-TOP	-,MIPS,-,T2.5,-,BLK,-,RCD380	
21	AH61-80030A	DAMPER-ASSY	-,POM,M0.8,G130,BLK,-,MAX-630	
22	AH61-60397A	SPRING-DOOR	-,STS,-,PI1.2,-,-,RCD380	
23	3409-000107	LEAF-SW		
24	AH95-50001A	LATCH ASSY	MAX555	
25	AH64-42017A	WINDOW-LCD	-,PMMA,-,-,CLEAR,-,RCD380	
26	AH64-11293A	KNOB-CD FUNCTION	-,ABS,-,BLK,-,RCD380	
27	AH61-10762A	BRACKET-LCD	-,SPTE,-,T0.3,-,-,RCD380	
28	AH61-22006A	HOLDER-PT	-,MIPS,-,BLK,-,RCD380	
29	AH62-30130A	HEAT-SINK	-,ALS,-,T1.0,-,-,POWER,RCD380	
30	AH66-20222A	GEAR-DRUM	-,ABS,-,-,BLK,-,RCD380	
31	AH64-11297A	KNOB-PUSH	-,ABS,-,BLK,-,RCD380	
32	AH64-11296A	KNOB-SBS	-,ABS,-,BLK,-,RCD380	
33	AH64-11295A	KNOB-LEVER	-,ABS,-,BLK,-,RCD380	
34	AH64-90021A	POINTER	-,P.P,-,WHT,-,RCD380	
35	AH66-20224A	GEAR-PULLEY	-,ABS,-,-,BLK,-,RCD380	
36	AH61-10763A	CHASSIS-TUNING	-,ABS,-,-,BLK,-,RCD380	
37	AH66-20223A	GEAR-TUNING	-,ABS,-,-,BLK,-,RCD380	
38	AH62-30131A	HEAT-SINK	-,ETHD,-,T0.5,-,-,CD,RCD380	
39	AH61-10535A	BRACKET-ANT	SPTE,-,T0.3,-,-,RCD1300	
40	AH64-32008A	CABINET-BACK	-,MIPS,-,-,-,RCD380	
41	AH61-60395A	SPRING-BATTERY,+-	-,STS,-,PI1.2,-,-,RCD380	
42	AH61-60396A	SPRING-BATTERY,-	-,STS,-,PI1.2,-,-,RCD380	
43	AH64-20151A	LID-BATTERY	-,MIPS,-,T2.5,-,BLK,-,RCD380	
44	AH64-50350A	HANDLE	-,HIPS,-,-,-,BLK,RCD380	
45	AH61-20529A	CAP-PICK UP	RCD380,ABS,-,BLK,-,-	
46	AH73-10031A	RUBBER-CD	RUBBER,-,RCD380	
47	3001-001070	SPEAKER	5W,3ohm,90dB,110Hz	

CMS - B31 EXPLODED VIEW



NO.	Description	CODE NO.	Q'TY
	DECK-CD	CMS-B31	
1	CHASSIS-DECK(M)	AJ70-00601E	1
2	COVER-GEAR	AJ66-00601G	1
3	GEAR(A)	AJ66-00601D	1
4	GEAR(B)	AJ66-00601B	1
5	GEAR(C)	AJ66-00601F	1
6	SHAFT-PU	AJ70-00601A	1
7	TURN-TABLE(S)	AJ72-00602C	1
8	*SOH-AA	AJ75-00601F	1
9	MOTOR-SPINDLE	AJ31-00601C	1
10	MOTOR-FEED	AJ31-00601A	1
11	SCREW-PH(+M2*3)	AJ60-00601D	4
12	SWITCH-LEAF	3409-000174	1
13	PCB-SUB	AJ41-00601E	1
14	CONNECTOR-WAFER	AJ37-00601A	1

3. Electrical Parts List

Location no.	Code no.	Description & Specifiation		Remarks
	AH26-80143W	TRANS-POWER	E148X25,115/230V,60/50	
	AH39-10001K	POWER-CORD	CP2,KLCE-2F,2M,KKS-15,	
	AH59-20005N	DECK-CDP	CMS-B31TG6	
	AH39-10060W	POWER-CORD	AP2,KJP-173/0201/KKJ201A	OPTION
	AH39-10001D	POWER-CORD	EP2, SPT-1 # 2/18.2M,KKS-18	OPTION
		ASSY-PCB MAIN	**RCD380**	
MIC1	AH09-10063X	IC-MICOM	KS57C2308Q	
KT431	AH26-10001B	TRANS-IF	BIAS,1.65MH(RED)	
OT1	AH26-10001L	TRANS-IF	AM-OSC,200UH(RED)	3-BAND
OT1	AH26-10001R	TRANS-IF	AM-OSC,290UH(RED)	2-BAND
OT1	AH26-10001U	TRANS-IF	SW-OSC,2.5UH(GRN)	3-BAND
OT2	AH26-10001W	TRANS-IF	LW,720UH(BLK)	
IT1	AH26-10002T	TRANS-IF	AM,7,5*7.5,BLUK(WHT)	
FERRITE-ANT	AH27-70001K	COIL-FERRITE ANT	FE-C,285UH,100MW/LW	MW/SW ANT
FERRITE-ANT	AH27-70001D	COIL-FERRITE ANT	FE-C570UH,60MW/MW	2-BAND
FERRITE-ANT	AH27-70001Q	COIL-FERRITE ANT	FE-C280UH,60MW/MW	3-BAND(SW)
FL2	AH27-80001M	BOBIN-COIL	0.29UH 1 1/2T	
FL2	AH27-90032E	SPRING-COIL	4.5T R8P 4D	OIRT-BAND
FL1	AH27-90001V	SPRING-COIL	4T R8P 4D N-ADJ	
FL1	AH27-90032C	SPRING-COIL	6T R8P 4D N-ADJ	OIRT-BAND
WCW2	AH39-20561P	LEAD CONNECTOR	-,5295,PHR,6P,150MM	
MAIN	AH62-30130A	HEAT SINK	-,ALS,-,T1.0,-,-,POWER	
CD	AH62-30131A	HEAT-SINK	ETHD,T0.5,CD,RCD380	
UQ901	0502-000303	TR-POWER	KSD882,NPNA,1W	
WIC51	0904-001159	IC-DSP	9286,8BIT,QFP,80P,-,1M	
WIC71	1003-000179	IC-MOTOR DRIVER	KA9258D,SOP,28P,-,SING	
AIC601	1201-001344	IC-POWER AMP	LA4600	
JIC301	1201-001345	IC-PRE AMP	BA3313L,Z1P,12P,16.8MI	
FIC1	1204-000388	IC-TUNER	KA22901,DIP,24P,300MIL	
WIC1	1204-001286	IC-ASP	KB9223,QFP,80P,-,PLAST	
FD3	12169-501-160	DIODE-AFC	KS3302	
QVR501	2101-001044	VR-ROTARY	50KB*2,F-166K(L:23.5 F	
OC2	2302-000227	C-FILM,PSF	180PF,50%,50V,LW	OPTION
OC1	2302-000229	C-FILM,PSF	270PF,5%,50V,5.5*11.5	OPTION
OC1	2302-000226	C-FILM,PSF	1.5NF,50%,50V,5.5*11.5	OPTION
RC705	2401-001052	C-AL	3300uF,20%,25V,GP,16*3	
OCT4	2502-000127	C-CERAMIC TRIMMER	20-4.6pF,+50-0%,100V	
V.C	2502-000177	C-VARICON	L2Z-22BPT-F4/100V	OPTION
V.C	2502-000184	C-VARICON	L2Z-22BPT-F3	2-BAND
V.C	2502-001032	C-VARICON	L2Z-22DPT M-F4	OIRT-BAND
MX1	2802-000158	RESONATOR-CERAMIC	4MHz,0.5%,TP,10.0x5.0x	
WX51	2802-000211	RESONATOR-CERAMIC	16.93MHz,0.5%,TP,10.0x	
ICF5	2802-000213	RESONATOR-CERAMIC	CSB456F18,19KHZ,+-38HZ	
ICF3	2903-000105	FILTER-CERAMIC	10.7MS3G/BP,10.7MHZ+-2	
ICF4	2903-000109	FILTER-CERAMIC	10.7MG16-A/BP,10.7MHZ+	
ICF2	2903-000172	FILTER-CERAMIC	SFU455B/BP,462KHZ+-2K,	
KSW4,SSW	3403-001074	SWITCH-PUSH	2C-2P (ALL-SHORTING TY	
JSW3	3408-001041	SWITCH-SLIDE	6C-2P(R/P SWITCH)NON-S	
ASW2	3409-000145	SWITCH-LEVER	30V,300MA,6P3T,A-SHORT	
FSW1	3409-000152	SWITCH-LEVER	30V,300MA,8P3T,A-SHORT	3-BAND
FSW1	3409-000156	SWITCH-LEVER	30V,500MA,2P2T,A-SHORT	2-BAND
WCW1	3708-001312	CONNECTOR-FPC/FC/P	16P,1MM,NON,SHRTING	
WCW3	3711-000724	CONNECTOR-HEADER	BOX,15P,1R,2MM,STR	
RCN701,WCW	3711-000820	CONNECTOR-HEADER	5267-02A 2P ST	
JCN301	3711-001098	CONNECTOR-HERDER	5267-07A 7P ST	
ACN601	3711-003107	CONNECTOR-HEADER	BOX,3P,1R,2.5MM,-,BRAS	
AJ601	3722-001311	JACK-PHONE	SJB-3607B PI 7.0MM	
WCW1-1	3809-001113	CABLE-FLAT	30V,80C,120MM,16P,1MM,	
B-B'	3811-000123	MONO-WIRE	1007#24,BLK,200MM	
VC3, VC4	3811-000130	WIRE-PVC CU	BCWA,300V,60mm,7/0.16m	
A-A',FRE	3811-000131	WIRE-PVC CU	BCWA,300V,80MM,7/0.16M	
XIC1	AC14-12001G	IC-POSI.ADJUST REG	KA78L05Z-TA,TO-92,3P,-	
FTP1,TP4	AH61-40022A	STUD-TAP	SPC1,T0.5,BT2,-,-,	
FD1, FD2,MD1, MD2,XD1 XD2, XD3,XD4	0401-000101	DIODE-SWITCHING	1N4148,100V,200mA,500m	
KD401	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41	
RZD701	0403-000396	DIODE-ZENER	UZP6.8B,6.8V,6.4-7.2V,	
UZD901	0403-000398	DIODE-ZENER	UZP8.2B,8.2V,7.7-8.7V,	
RQ701	0501-000010	TR-SMALL SIGNAL	KSC1008-YTA,NPN,80V,60	
KQ702	0501-000303	TR-SMALL SIGNAL	KSA733YTA,PNP,-60V,-50	
WQ1	0501-000323	TR-SMALL SIGNAL	KSB564-YTA PNP,-30V,-2	
KQ431	0501-000394	TR-SMALL SIGNAL	KSC900-LTA,30V,25V,50m	
WQ71	0501-000610	TR-SMALL SIGNAL	KSA928A,PNP,-30V,-30V,	
MQ1	0504-000118	TR-DIGITAL	KSR1003TA,NPN,300MW,22	
IQ1	0504-000121	TR-DIGITAL	KSR1007TA/108M,300MW,2	
IQ2, QQ5,QQ551	0504-000122	TR-DIGITAL	KSR1009TA, 300MW,4.7KO	
KR401,KR4,WR14	2001-000008	R-CARBON	15Kohm,5%,1/8W,AA,TP,1	
MR1, MR6	2001-000010	R-CARBON	68Kohm,5%,1/8W,AA,TP,1	
UR902	2001-000027	R-CARBON	100ohm,5%,1/4W,AA,TP,2	
RR703	2001-000118	R-CARBON(S)	180ohm,5%,1/2W,AA,TP,2	
FR2, FR3,WR10,WR22,WR5 WR8, XR7,XR7R	2001-000273	R-CARBON	100Kohm,5%,1/8W,AA,TP,	
JR301,JR3,QR502,QR552	2001-000281	R-CARBON	100ohm,5%,1/8W,AA,TP,1	
JR303,JR3,NFR1,SR201,SR251 SR705,UR9,UR953,WR23 WR24	2001-000290	R-CARBON	10Kohm,5%,1/8W,AA,TP,1,1	
FR1, IR1,RR702,UR901	2001-000302	R-CARBON	10ohm,5%,1/8W,AA,TP,1.	

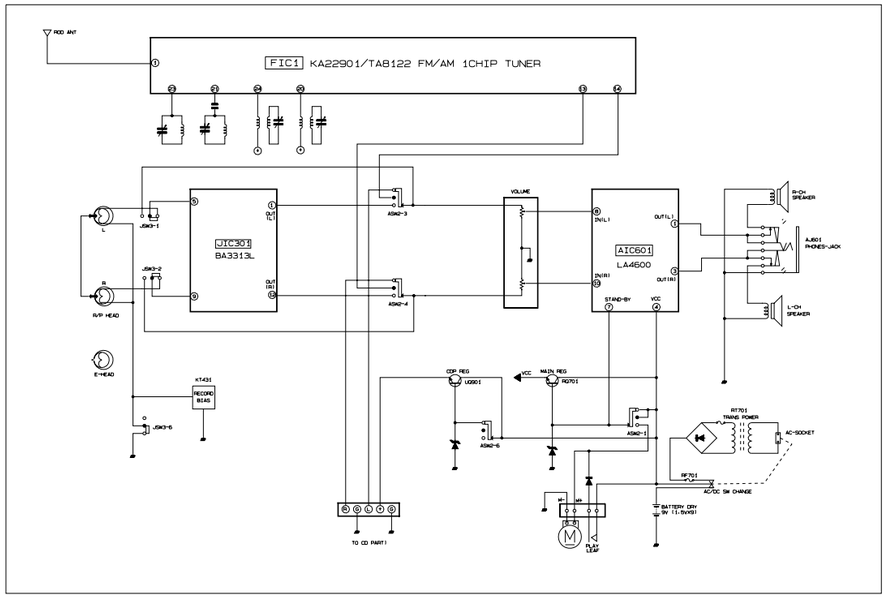
Location no.	Code no.	Description & Specifiation		Remarks
WR11,WR1,WR17	2001-000319	R-CARBON	120Kohm,5%,1/8W,AA,TP,	
IR2, WR2,WR26,WR27,WR9	2001-000331	R-CARBON	12Kohm,5%,1/8W,AA,TP,1	
WR19,WR2,WR7	2001-000356	R-CARBON	150Kohm,5%,1/8W,AA,TP,	
KR433	2001-000376	R-CARBON	15OHM,5%,1/8W,AA,TP	
KR403,KR4,WR3	2001-000397	R-CARBON	RN 1/8T 180K-J	
IR3, RR7,SR204,SR254,WR20 WR54,XR5,XR5R	2001-000429	R-CARBON	1Kohm,5%,1/8W,AA,TP,1.	
JR305,WR6	2001-000435	R-CARBON	1Mohm,5%,1/8W,AA,TP,1.	
KR402,KR4,MR5, UR904 UR954	2001-000449	R-CARBON	2.2Kohm,5%,1/8W,AA,TP,,1	
JR302,JR3,MR3	2001-000508	R-CARBON	220Kohm,5%,1/8W,AA,TP,	
AR601,AR6,QR503	2001-000515	R-CARBON	220ohm,5%,1/8W,AA,TP,1	
IR10,IR4,MR2, QR503	2001-000522	R-CARBON	22Kohm,5%,1/8W,AA,TP,1	
JR306,KR4,WR28	2001-000527	R-CARBON	22ohm,5%,1/8W,AA,TP,1.	
WR51,XR2,XR2R	2001-000563	R-CARBON	27Kohm,5%,1/8W,AA,TP,1	
RR706,RR7,WR52,WR53	2001-000591	R-CARBON	3.3Kohm,5%,1/8W,AA,TP,	
XR3L,XR3	2001-000660	R-CARBON	33Kohm,5%,1/8W,AA,TP,1	
WR18,WR3,WR31,WR32,WR33	2001-000702	R-CARBON	39Kohm,5%,1/8W,AA,TP,1	
IR5, IR6,SR203,SR253,XR4L XR4R,XR6,XR6R	2001-000734	R-CARBON	4.7Kohm,5%,1/8W,AA,TP,	
WR2	2001-000773	R-CARBON	470Kohm,5%,1/8W,AA,TP,	
KR432,MR6,MR7, MR8,MR9 WR12,WR1	2001-000786	R-CARBON	47Kohm,5%,1/8W,AA,TP,1	
OR2	2001-000793	R-CARBON	47ohm,5%,1/8W,AA,TP,1.	
JR304,JR3,SR202,SR252,232	2001-000802	R-CARBON	5.6Kohm,5%,1/8W,AA,TP,	
WR13	2001-000864	R-CARBON	56Kohm,5%,1/8W,AA,TP,1	
QR501,QR5	2001-000890	R-CARBON	6.8Kohm,5%,1/8W,AA,TP,	
IR9	2001-000938	R-CARBON	68ohm,5%,1/8W,AA,TP,1.	
WR4	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,	
WR1	2001-000989	R-CARBON	820Kohm,5%,1/8W,AA,TP,	
WR29,WR3	2001-001000	R-CARBON	82Kohm,5%,1/8W,AA,TP,1	
WR35	2001-001006	R-CARBON	82ohm,5%,1/8W,AA,TP,1.	
RR701	2001-001096	R-CARBON(S)	2.2ohm,5%,1/2W,AA,TP,2	
WFR71	2008-000141	R-FUSIBLE	2.2ohm,5%,1/4W,AA,TP,2	
OC4	2201-000144	C-CERAMIC,DISC	100pF,5%,50V,NPO,8.0X4	
OC3	2201-000202	C-CERAMIC,DISC	10pF,5%,50V,NPO,5.0*3.	
WC27	2201-000223	C-CERAMIC,DISC	12pF,5%,50V,NPO,5.0*3.	
FC2	2201-000354	C-CERAMIC,DISC	20pF,5%,50V,NPO,5.0*3.	
FC1, FC3	2201-000389	C-CERAMIC,DISC	22pF,5%,50V,NPO,5.0*3.	
FC4	2201-000399	C-CERAMIC,DISC	24PF,5%,50V,RH,TP,5.0*	
WC53,WC5	2201-000423	C-CERAMIC,DISC	27pF,5%,50V,NPO,5.0*3.	
NFR2	2201-000432	C-CERAMIC,DISC	2PF,5%,50V,NPO,5.0*3.0	
MC5, MC6	2201-000483	C-CERAMIC,DISC	33pF,5%,50V,NPO,5x3.5m	
AC603	2201-000565	C-CERAMIC,DISC	47nF,+80% -20% 50V Y5V	
FC5	2201-000582	C-CERAMIC,DISC	4PF,0.3PF,50V,NPO	
OCT2	2201-000619	C-CERAMIC,DISC	5pF,50V,NPO,5.0*3.0,5m	
NFR2	2201-000659	C-CERAMIC,DISC	6pF,0.5pF,50V,SL,5.0*3	
NFC1	2201-000666	CERAMIC,DISC	7P,CH,BLACK MARKING	
WC22,WC2,WC25,WC64	2201-000783	C-CERAMIC,DISC	100nF,+80%,-20%,50V,Y5	
IC1, OC6	2201-000865	C-CERAMIC,DISC	68PF,5%,50V,CH,TP,6.5*	
IC3, WC1	2202-000231	C-CERAMIC,MLC-AXIA	330pF,10%,50V,Y5P,3.5x	
FC18,FC1,JC303,JC353 NJC1 QC505,QC5,UC904,UC954	2202-000781	C-CERAMIC,MLC-AXIA	100pF,10%,50V,Y5P,3.5x	
KC434,KC4,SC201,SC251,WC19 WC23,WC3,XC3L,XC3R,XC5R	2202-000796	C-CERAMIC,MLC-AXIA	1nF,10%,50V,Y5P,3.5x19,1	
WC10,WC1,WC17,WC2,WC20 WC21,WC5,WC57,WC58,WC59 WC61,WC6,WC70,XC4L,XC4R XC9	2202-000797	C-CERAMIC,MLC-AXIA	10nF,30%,16V,Y5R,3.5x1,1	
NCI1,NCI,NCI3,NCI4	2202-000806	C-CERAMIC,MLC-AXIA	220pF,10%,50V,Y5P,3.5x	
AC606,FC1,FC16,FC17,RC706 UC903	2202-000807	C-CERAMIC,MLC-AXIA	22nF,+80-20%,25V,Y5V,3	
JC302,JC3	2202-000809	C-CERAMIC,MLC-AXIA	3.3nF,20%,16V,Y5R,3.5x	
WC28,WC2	2202-000817	C-CERAMIC,MLC-AXIA	4.7nF,20%,16V,Y5R,3.5x	
IC4	2202-000825	C-CERAMIC,MLC-AXIA	680pF,10%,50V,Y5P,3.5x	
QC501,QC5	2202-000829	C-CERAMIC,MLC-AXIA	820pF,10%,50V,Y5P,3.5x	
WC1, WC5	2202-000848	C-CERAMIC,MLC-AXIA	1.5nF,20%,16V,Y5R,3.5x	
KC401,KC4,KC451,KC452 WC18	2202-000850	C-CERAMIC,MLC-AXIA	2.2NF,20%,16V,Y5R	
KC432	2301-000365	C-FILM,PEF	1.5nF,10%,50V,5.5x12x3	
JC305,JC3	2301-000385	C-FILM,PEF	12nF,10%,50V,7x12x3.5,	
WC15	2301-000389	C-FILM,PEF	150nF,5%,50V,12.5x15x7	
IC11,IC1,IC5	2301-000390	C-FILM,PEF	15nF,10%,50V,7x12x3.5,	
QC502,QC5,WC16,WC4,WC6	2301-000430	C-FILM,PEF	33nF,10%,50V,9x12.5x4.	
WC51	2301-000449	C-FILM,PEF	47nF,10%,50V,9.5x12.5x	
KC433	2301-000454	C-FILM,PEF	5.6nF,10%,50V,6x12x3,T	
WC12	2301-000469	C-FILM,PEF	68nF,10%,50V,10x12.5x5	
IC9	2301-000476	C-FILM,PEF	82nF,10%,50V,10.5x12.5	
SC202,SC2,WC33,WC7,WC8	2303-000312	C-FILM,PPF	100nF,1%,50V,7.5*12.5*	
AC602,IC2,IC21,JC309,QC504 RC708,WC3,WC34,WC35 WC55 WC60,WC6,WC63,WC64 WC65 XC8	2401-000240	C-AL	100uF,20%,10V,GP,5*11m,1	
AC604,UC9	2401-000303	C-AL	100uF,20%,25V,GP,6.3*1	
MC1	2401-000419	C-AL	10UF,20%,16V,GP,5*11.5	
IC8	2401-000759	C-AL	220NF,20%,50V,GP,5X11M	
RC707	2401-001102	C-AL	330uF,20%,16V,GP,8*11.	
IC2	2401-001164	C-AL	33uF,20%,16V,GP,5*11,5	
AC605,AC6,UC905	2401-001364	C-AL	470uF,20%,16V,GP,10x12	
JC304,JC3,JC354,KC431	2401-001538	C-AL	47uF,20%,25V,GP,5*11,5	
WC30	2401-001645	C-AL	680nF,20%,50V,GP,5*11,	

Location no.	Code no.	Description & Specifiation	Remarks
MC4	2401-001889	C-AL	100nF,20%,50V,GP,5*11,
XC7	2401-001895	C-AL	100uF,20%,16V,GP,5*11,
AC601,FC6,IC10,IC13 IC14 RC709,UC9,DESIGN,IC6, JC3,JC356,QC503	2401-001912	C-AL	1uF,20%,50V,GP,5*11,5m
WC3, WC6,XC2L,XC2R,XC5L XC5R,XC6	2401-001954	C-AL	4.7UF,20%,50V,GP,5*11
JC308,WC5,WC9	2401-001968	C-AL	470nF,20%,50V,GP,5*11,
MC3, WC1	2401-001990	C-AL	10UF,20%,25V,BP,5*11,5
MC2	2401-002183	C-AL	220uF,20%,16V,GP,10*9,
ACH1,ACH	2701-000111	INDUCTOR-AXIAL	100uH,10%,2.5x3.4,LAL0
WL1, XL1,XL3L,XL3R	2701-000178	INDUCTOR-AXIAL	33uH,10%,2.8x7mm,BAL03
WL2, WL4,XL2	3301-000297	CORE-FERRITE BEAD	AA,3.6x1.2x5.7mm,1400,
FBF1,FJ1,FJ15-19 ,FJ2,FJ22-2	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5 16
	AH90-10749M	ASSY-PCB FRONT	RCD380,BAISC
ULC1	AH07-10035J	LCD	-,CH-60881PP,RCD380,7.
	AH39-20001U	LEAD CONNECTOR-ASS	1007#26 2P 150MM
UCW1	AH39-20561M	LEAD-CONNECTOR-ASS	-,51004,35023,15P,20
TO MAIN PC	AH39-50001D	LEAD-FASTEN	,1007#24,200MM,RED
LCD	AH61-10762A	BRACKET-LCD	-,SPTE,-,T0.3,-,-,RCD3
UD1, UD2	0401-000101	DIODE-SWITCHING	1N4148,100V,200mA,500m
USW1-4	3404-000165	SWITCH-TACT	12V,50mA,160gf,SKHV109
	ASSY-PCB POWER		**RCD380**
RJ701	AH37-22001L	JACK-AC POWER	16.5MM,KC2106A,5P,BULK CP2
RJ701	AH37-22001M	JACK-AC POWER	17MM,KC1103,5P,BULK EP2
RF701	3601-000216	FUSE-FERRULE	250V,2.5A,TIME LAG,GLA
RCN702	3711-000820	CONNECTOR-HEADER	5267-02A 2P ST
RD701-704	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41
RC701-704	2201-000381	C-CERAMIC,DISC	22nF,+80%,-20% 50V Y5V
RF701	3602-000147	FUSE-CLIP	250V,7.5A,30mohm

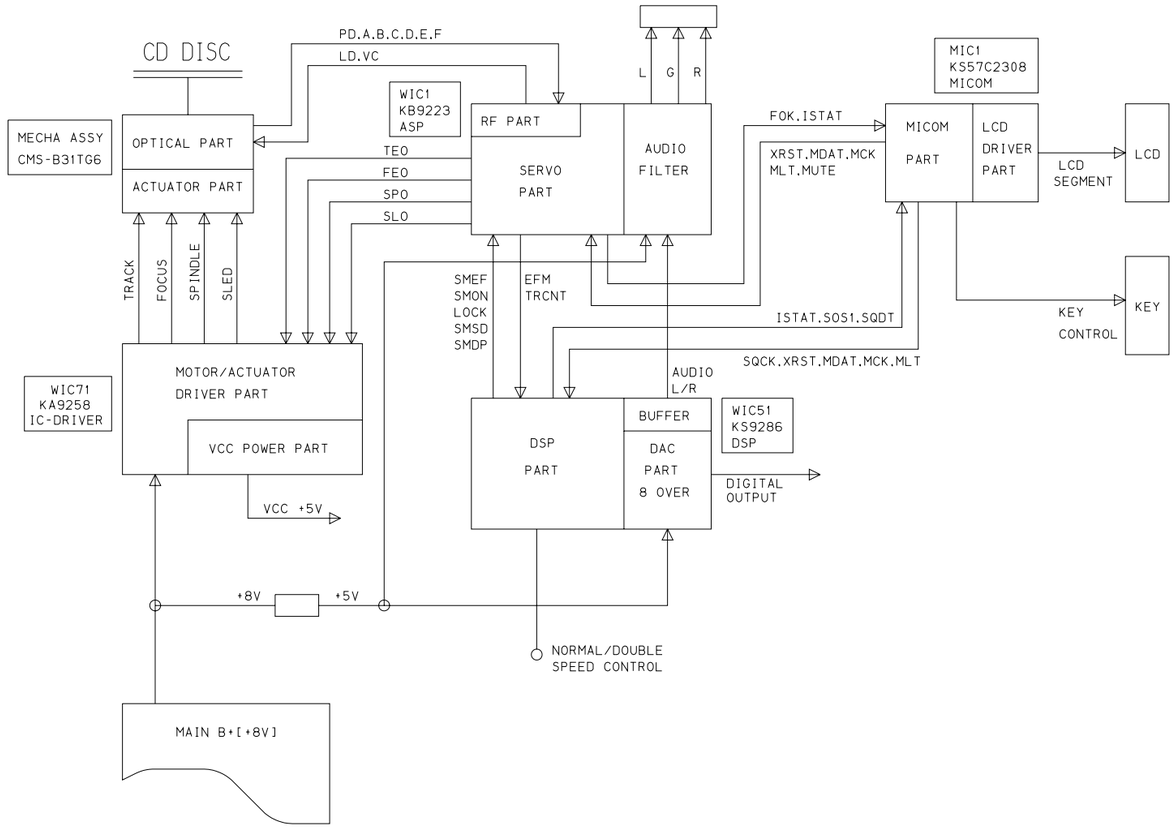
Location no.	Code no.	Description & Specifiation	Remarks

4. Block Diagram

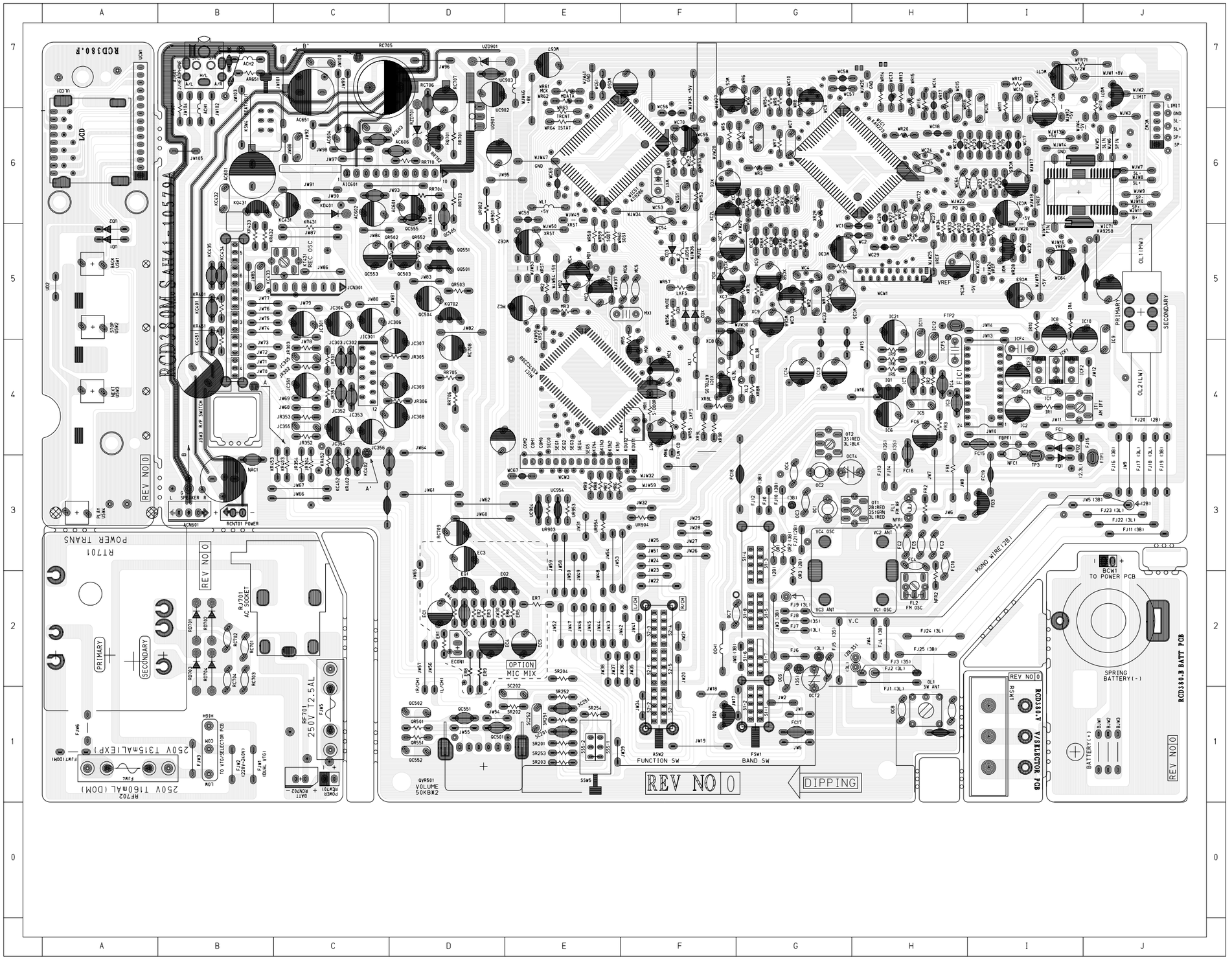
4-1 Main



4-2 CD Part



5. Printed Circuit Board Diagram



*** DIODE ***

FD1 (I3)
FD2 (I4)
KD401 (C6)
MD1 (E5)
MD2 (E5)
RD701 (B2)
RD702 (B2)
RD703 (B2)
RD704 (B2)
RZD701 (D6)
UD1 (A5)
UD2 (A5)
UZD901 (D7)
XD1 (F5)
XD2 (F5)
XD3 (F5)
XD4 (F5)

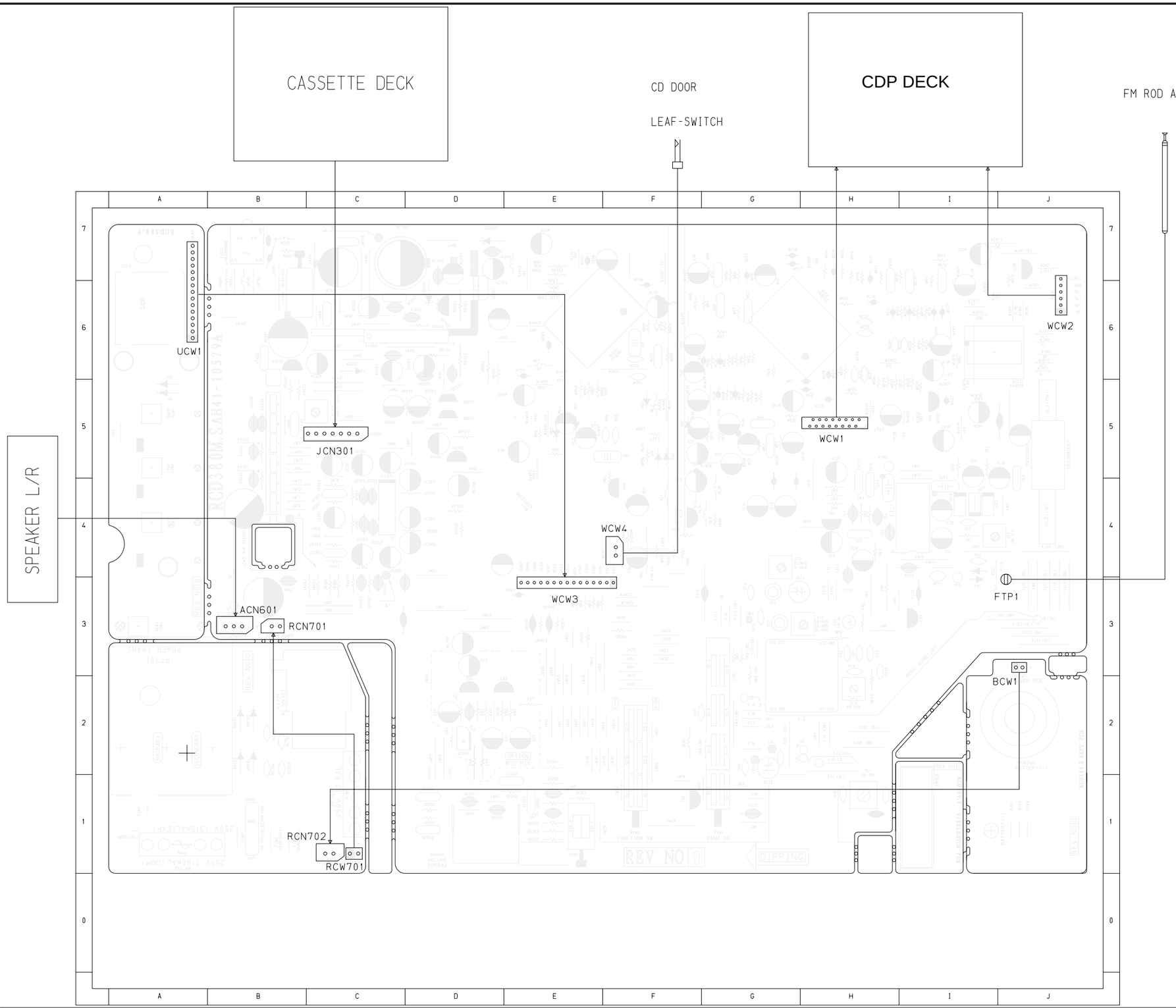
*** TR ***

EQ1 (D2)
EQ2 (D2)
FD3 (I3)
IQ1 (H4)
IQ2 (F1)
KA78L05 (F4)
KQ431 (B6)
KQ702 (D5)
MQ1 (F4)
QQ501 (D5)
QQ551 (D5)
RQ701 (D6)
WQ1 (I5)
WQ71 (J7)

*** IC&WAFER ***

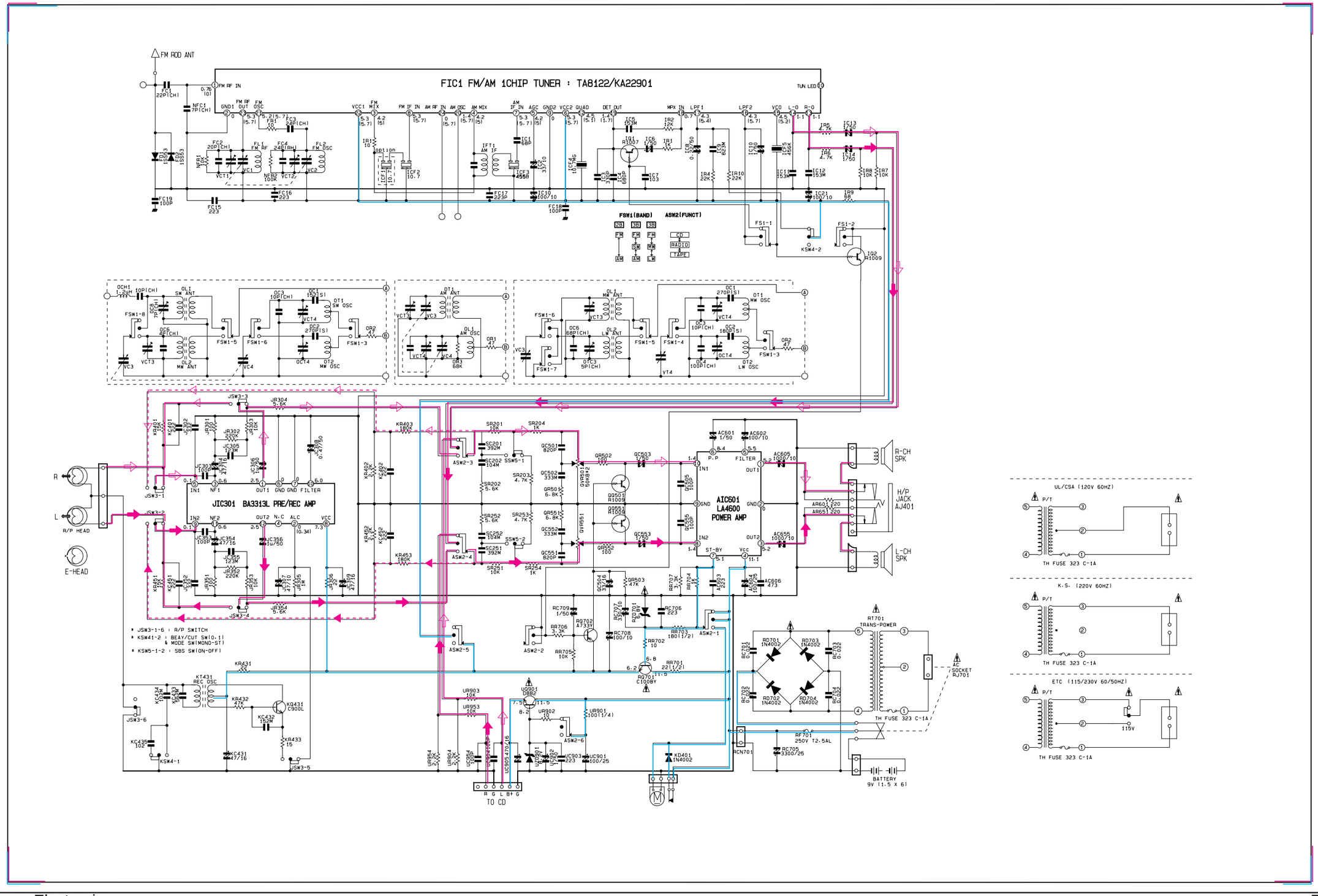
ACN601 (B3)
BCW1 (J3)
ECON1 (D2)
JCN301 (C5)
OL1 (H1)
RCN701 (B3)
RCN702 (C1)
RCW701 (C1)
RSW1 (I1)
UCW1 (A6)
USW1 (A5)
USW2 (A5)
USW3 (A4)
USW4 (A3)
WCW2 (J6)
WCW4 (F4)

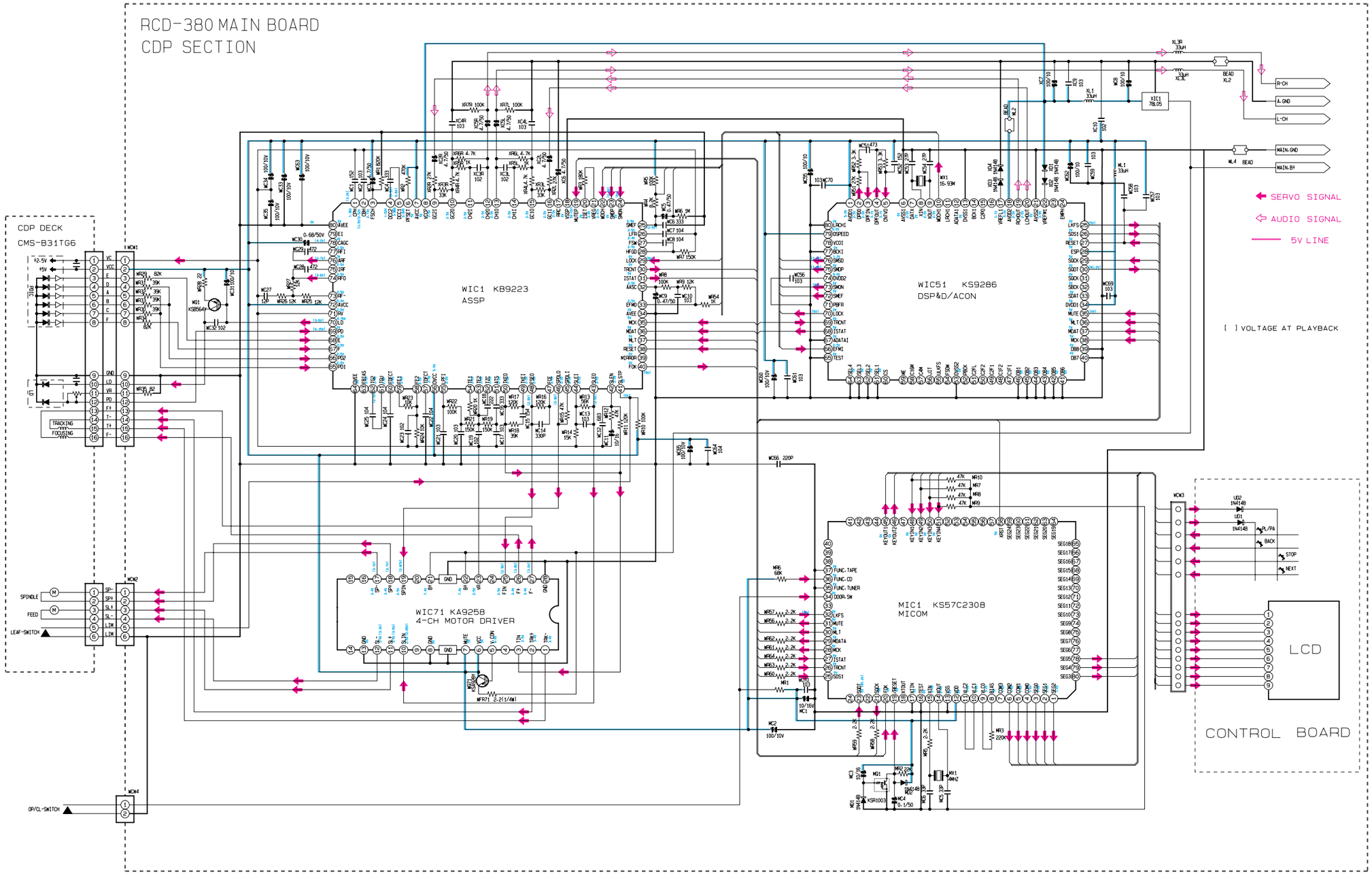
6. Wiring Diagram



7. Schematic Diagram

7-1 Main Part




RCD-380 MAIN BOARD
CDP SECTION
CDP DECK
CMS-B31TG6
WIC1 KB9223
ASSP
WIC51 KS9286
DSP&D/ACON
WIC71 KA9258
4-CH MOTOR DRIVER
MIC1 KS57C2308
MICOM
LCD
CONTROL BOARD
R-CH
A-GND
L-CH
MAIN-GND
MAIN-B+
SERVO SIGNAL
AUDIO SIGNAL
5V LINE
[ ] VOLTAGE AT PLAYBACK
SPINDLE
FEED
LEAF-SWITCH
OP/CL-SWITCH
TRACKING
FOCUSING
PL/PA
BACK
STOP
NEXT